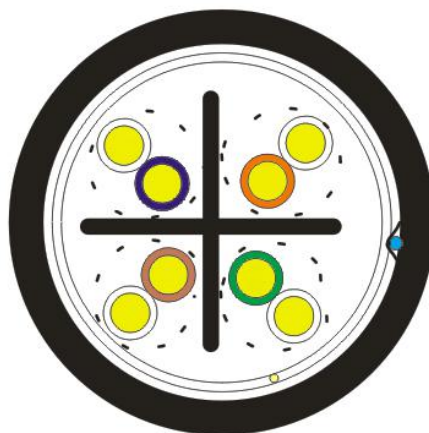


## Category 6 FTP Cable

Part Number:PROCAT6EXT



## Application

The perfect solution for installation runs that require the cable to be exposed to the elements.

Full Gigabit communications under extreme conditions.

IP Megapixel CCTV/Analog Outdoor Installations

Wire Access Points

Gigabit Outdoor Video/data installations

Long distance PoE feeding

550MHz Broadband Video      Voice,T1,ISDN

## Standards

ANSI EIA/TIA 568 C.2;

ISO/IEC 11801 2<sup>nd</sup> Edition; IEC 61156-5

EN 50173; EN 50288-3-1

IEEE 802.3at

UL- E488955

ETL

## Flame resistance

IEC 60332-1

CMX

CM

## Construction

Conductor	Bare copper wire (AWG23/1)
Insulation	Polyethylene, Ø 1.05±0.03 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Shield	Aluminum Foil, 24AWG Bare Copper Drain Wire
Sheath CMX UV RATED	Black Color

## Mechanical properties

Bending radius	without load	4xD
	with load	8xD
Temperature range	during operation	-20 °C to + 60 °C
	during installation	0 °C to + 50 °C

## Electrical properties @ 20°C

Dielectric strength	2.5 KV dc-2 seconds
Conductor resistance	Max 7.0 ohm/100M at 20°C
Max. Ring resistance	16.8 Ohm/100M at 20°C
Max. Mutual capacitance	560 pf/100M
Max. Capacity unbalance	330 pf/100M
Mean characteristic impedance 100 MHz	100 ± 15 Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	Nominal 427 ns/100m
Delay skew	Nominal 12 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core Coupling attenuation	≥ 55 dB

## Nominal transmission characteristics @ 20°C

Frequency (Mhz)	Impedance (Ω)	RL (dB)	ATT (dB/100)	NEXT (dB)	PS.NEXT (dB)	ELFEXT (dB)	PS-ELFEXT (dB)
1	100±15	20	2.04	74.3	72.3	67.8	64.8
4	100±15	23.01	3.81	65.3	63.3	55.8	52.8
8	100±15	24.52	5.35	60.8	58.8	49.7	46.7
10	100±15	25	5.99	59.3	57.3	47.8	44.8
16	100±15	25	7.6	56.2	54.2	43.7	40.7
25	100±15	24.32	9.57	53.3	51.3	39.8	36.8
31.25	100±15	23.64	10.74	51.9	49.9	37.9	34.9
62.3	100±15	21.54	15.48	47.4	45.4	31.9	28.9
100	100±15	20.1	19.92	44.3	42.3	27.8	24.8
125	100±22	19.42	22.49	42.8	40.8	25.9	22.9
200	100±22	18	29.15	39.8	37.8	21.8	18.8
250	100±22	17.32	33.04	38.3	36.3	19.8	16.8

## Product Code Table

Product Description	Packing Length	Part Number
23AWG Cat.6 FTP 4P PVC UL CMX UV RATED BLACK Color	1000ft easy pull box	PROCAT6EXT
23AWG Cat.6 FTP 4P PVC UL CMX UV RATED BLACK Color	500ft easy pull box	PROCAT6EXT/500

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by Syscom: any modification or alteration afterwards of product may give different result.

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## Cable ID: PROCAT6EXT/500-HLX003[1]

## Test Summary: PASS

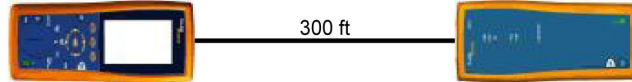
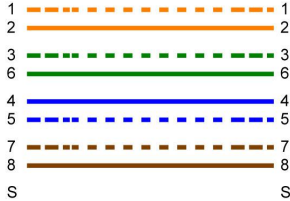
Date / Time: 04/25/2017 11:09:53am  
**Headroom: 5.1 dB (NEXT 36-78)**  
**Test Limit: TIA Cat 6 Perm. Link**  
 Cable Type: Cat 6 FTP

Operator: Your Name  
 Software Version: 2.7400  
 Limits Version: 1.9300  
 NVP: 70.0%

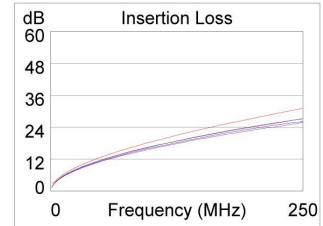
Model: DTX-1800  
 Main S/N: 1739303  
 Remote S/N: 1739304  
 Main Adapter: DTX-PLA002  
 Remote Adapter: DTX-PLA002

### Wire Map (T568B)

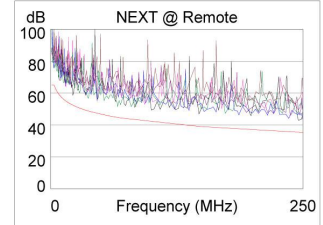
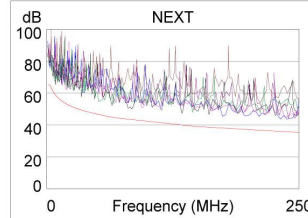
PASS



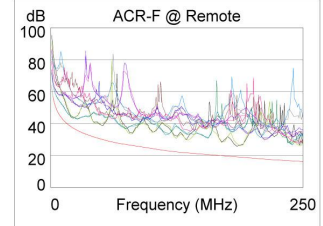
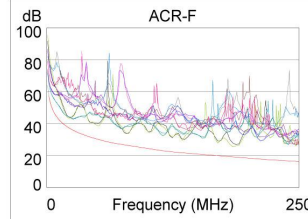
Length (ft), Limit 295	[Pair 78]	300
Prop. Delay (ns), Limit 498		455
Delay Skew (ns), Limit 44		19
Resistance (ohms)	[Pair 78]	12.2
Insertion Loss Margin (dB)	[Pair 36]	3.9
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	31.1



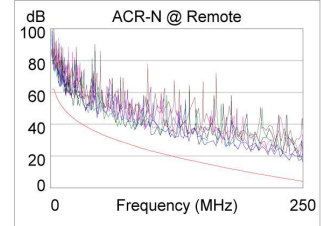
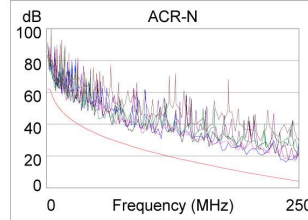
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12-78	36-78	12-36	12-78
<b>NEXT (dB)</b>	6.4	5.1	6.9	7.4
Freq. (MHz)	83.8	66.5	237.0	246.0
Limit (dB)	43.1	44.7	35.7	35.5
Worst Pair	12	36	12	12
<b>PS NEXT (dB)</b>	6.8	6.7	7.2	8.2
Freq. (MHz)	80.5	66.5	237.0	245.5
Limit (dB)	40.9	42.2	33.1	32.8



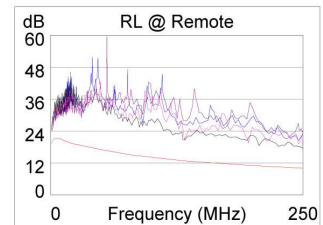
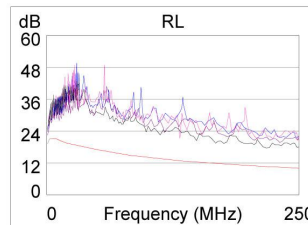
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	78-12	12-78	78-12	12-78
<b>ACR-F (dB)</b>	5.6	5.6	6.1	6.6
Freq. (MHz)	21.1	21.1	189.0	189.0
Limit (dB)	37.7	37.7	18.7	18.7
Worst Pair	36	36	36	78
<b>PS ACR-F (dB)</b>	7.7	7.8	10.4	10.9
Freq. (MHz)	1.3	1.5	240.5	247.0
Limit (dB)	59.3	57.7	13.6	13.3



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	12-78	36-78	12-36	12-36
<b>ACR-N (dB)</b>	7.3	7.1	10.7	12.1
Freq. (MHz)	8.8	66.5	237.0	250.0
Limit (dB)	53.6	29.8	5.6	4.2
Worst Pair	78	36	12	36
<b>PS ACR-N (dB)</b>	8.3	8.1	11.8	12.7
Freq. (MHz)	7.4	66.5	237.0	250.0
Limit (dB)	52.8	27.3	2.9	1.6



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	78	36	45	45
<b>RL (dB)</b>	5.9	6.7	6.9	7.3
Freq. (MHz)	4.6	4.5	219.5	250.0
Limit (dB)	21.0	21.0	10.6	10.0



Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	